



SPECIFICATION

MODEL	HRP-150N3-12	HRP-150N3-24	HRP-150N3-36	HRP-150N3-48	
OUTPUT	DC VOLTAGE	12V	24V	36V	48V
	RATED CURRENT	13A	6.5A	4.3A	3.3A
	CURRENT RANGE	0 ~ 13A	0 ~ 6.5A	0 ~ 4.3A	0 ~ 3.3A
	RATED POWER	156W	156W	154.8W	158.4W
	RIPPLE & NOISE (max.) Note.2	120mVp-p	150mVp-p	200mVp-p	240mVp-p
	VOLTAGE ADJ. RANGE	10.2 ~ 13.8V	21.6 ~ 28.8V	28.8 ~ 39.6V	40.8 ~ 55.2V
	VOLTAGE TOLERANCE Note.3	± 1.5%	± 1.5%	± 1.5%	± 1.5%
	LINE REGULATION	± 0.3%	± 0.2%	± 0.2%	± 0.2%
	LOAD REGULATION	± 0.5%	± 0.5%	± 0.5%	± 0.5%
	SETUP, RISE TIME	3000ms, 50ms/230VAC 3000ms, 50ms/115VAC at full load			
HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load				
INPUT	VOLTAGE RANGE Note.4	85 ~ 264VAC 120 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load			
	EFFICIENCY (Typ.)	88%	88%	89%	89%
	AC CURRENT (Typ.)	1.7A/115VAC 0.9A/230VAC			
	INRUSH CURRENT (Typ.)	35A/115VAC 70A/230VAC			
	LEAKAGE CURRENT	<1mA/ 240VAC			
PROTECTION	OVERLOAD	Output power >105% rated for more than 5 seconds then shut down o/p voltage, re-power on to recover Constant current limiting for output power >330% rated for more than 5 seconds and then shut down o/p voltage, re-power on to recover			
	OVER VOLTAGE	14.4 ~ 16.8V	30 ~ 34.8V	41.4 ~ 48.6V	57.6 ~ 67.2V
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down			
ENVIRONMENT	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-50 ~ +85°C, 10 ~ 95% RH non-condensing			
	TEMP. COEFFICIENT	± 0.04%/°C (0 ~ 50°C)			
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes			
	OPERATING ALTITUDE Note.5	5000 meters			
SAFETY & EMC (Note 6)	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004, AS/NZS 62368.1 approved			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH			
	EMC EMISSION	Parameter	Standard		Test Level / Note
		Conducted	BS EN/EN55032		Class B
		Radiated	BS EN/EN55032		Class B
		Harmonic current	BS EN/EN61000-3-2		Class A
		Voltage Flicker	BS EN/EN61000-3-3		-----
	EMC IMMUNITY	BS EN/EN55035, BS EN/EN61000-6-2(BS EN/EN50082-2)			
		Parameter	Standard		Test Level / Note
		ESD	BS EN/EN61000-4-2		Level 3, 8KV air; Level 2, 4KV contact
		RF field	BS EN/EN61000-4-3		Level 3, 10V/m
		EFT/ Burst	BS EN/EN61000-4-4		Level 3, 2KV
		Surge	BS EN/EN61000-4-5		Level 4, 4KV/Line-FG; 2KV/Line-Line
Conducted		BS EN/EN61000-4-6		Level 3, 10V	
Magnetic Field		BS EN/EN61000-4-8		Level 4, 30A/m	
Voltage Dips and Interruptions		BS EN/EN61000-4-11		95% dip 0.5 periods, 30% dip 25 periods, 95% interruptions 250 periods	
OTHERS	MTBF	1706.0K hrs min. Telcordia TR/SR-332 (Bellcore); 222.8K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	159*97*38mm (L*W*H)			
	PACKING	0.54Kg; 24pcs/12.96Kg/0.9CUFT			
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. Derating may be needed under low input voltages. Please check the derating curve for more details.</p> <p>5. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> <p>6. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p>				